

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No.

10/573,694

Applicant (s)

Juliana G. Serafin, et al.

Filed

March 27, 2006

TC/A.U. Examiner Unknown

Unknown

Title

CATALYSTS HAVING ENHANCED STABILITY, EFFICIENCY

AND/OR ACTIVITY FOR ALKYLENE OXIDE PRODUCTION

Docket No.

62397A

Customer No.

00109

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Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to Applicant's duty of disclosure under 37 CFR §1.56, the Examiner's attention is directed to the information identified in the attached Form PTO/SB/08a.

The cited U.S. patents and patent application publications are listed on Form PTO/SB/08a. A copy of the cited foreign patent documents and non-patent literature are enclosed herewith. The Examiner is requested to review each reference and formulate his/her own understanding thereof.

Respectfully submitted,

Registration No. 39,074 Phone: 989-636-1556

P. O. Box 1967 Midland, MI 48641-1967

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PTO/SB/08A (08-03)

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Complete if Known

10/573694

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Substitute for form 1449/PTO

INFORMATION DISCLOSURE

JUN 1 9 2006

Application Number Filing Date March 27, 2006 First Named Inventor STATEMENT BY APPLICANT Juliana G. Serafin, et al. Art Unit Not Assigned (Use as many sheets as necessary) Examiner Name Not Assigned Attorney Docket Number Sheet 1 of 3 62397A

Examiner Initials*	Cite No.1	Document Number	Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevan Passages or Relevant Figures Appear
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		US-RE20,370	05-18-1937	Lefort	
		US-2,040,782	05-12-1936	van Peski	
		US-4,379,134	04-05-1983	Weber, et al.	
		US-4,761,394	08-02-1988	Lauritzen	
		US-4,786,743	11-22-1988	Bongaarts, et al.	
		US-4,806,518	02-21-1989	Boxhoorn, et al.	
		US-4,812,437	03-14-1989	Nojiri, et al.	
		US-4,916,243	04-10-1990	Bhasin, et al.	
		US-4,994,587	02-19-1991	Notermann, et al.	
		US-4,994,588	02-19-1991	Kapicak, et al.	
		US-4,994,589	02-19-1991	Notermann	
		US-5,057,481	10-15-1991	Bhasin	
		US-5,063,195	11-05-1991	Jin, et al.	
		US-5,100,859	03-31-1992	Gerdes, et al.	
		US-5,145,824	09-08-1992	Buffum, et al.	
		US-5,187,140	02-16-1993	Thorsteinson, et al.	
		US-5,384,302	01-24-1995	Gerdes, et al.	
		US-5,504,053	04-02-1996	Chou, et al.	
		US-5,703,001	12-30-1997	Rizkalla	
		US-5,801,259	09-01-1998	Kowaleski	
		US-6,313,325	11-06-2001	Shima, et al.	
		US-2003/0162655	08-28-2003	Szymanski, et al.	
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			FOREIGN PATE	NT DOCU	MENTS	
Examiner Initials*	Cite No. ¹	Document Number Country Code ³ – Number-Kind Code ⁵ (if known) WO-95/01837	Publication Date (MM-DD- YYYY)	Name of Pa of Cit	atentee or Applicar red Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		WO-95/01837	01-19-1995	Shell		
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		MON DATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	_T 6
		MPI Family Report, Canadian Patent 1300586C, Nojiri Naohiro, "Silver-Deposited Catalyst For Production of Ethylene Oxide", May 12, 2005.	
		MPI Family Report, Chinese Patent 1217233A, Beijing Yanshan Petro Chemical, "Mfg. For Producing Alumina Carrier and Use Thereor", May 26, 1999.	
		KIRK-OTHMER, "Ethylene Oxide", Encyclopedia of Chemical Technology, 1994, pages 915-959, 4 th Edition, Volume 9.	
		LEE, James K., Xenophon E. Verykios, Rangasamy Pitchai; "Support Participation in Chemistry of Ethylene Oxidation on Silver Catalysts", Applied Catalysts, 1988, pages 223-237, Volume 44 (1-2).	
		VALERO, R., B. Durand, J-L. Guth, T. Chopin; "Hydrothermal Synthesis of Porous Zircon in Basic Fluorinated Medium", Microporous and Mesoporous Materials, 1999, pages 311-318, Volume 29.	
Examiner	1	Date	
Signature	1	Considered	

^{*}Examiner: Initial if reference considered, whether or not citation is in conformation with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (option). 2 Applicant is to place a check mark here in English language Translation is attached.

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